

CLAIMS

1. An image display device having a group of pixels arranged in a matrix in a predetermined array and assigned to three primary colors, and having a signal line connected
5 for each column of the group of pixels, wherein pixel data of three primary colors are successively supplied for each color to a corresponding signal line during a period excluding a blanking period of one horizontal scanning period constituted by a line display period for the color
10 display of one pixel line, and wherein
a select switch is connected to each of the signal lines, and
a precharging control circuit is connected to the select switch,
15 the precharging control circuit supplies permission pulses for the supply of data to signal lines when making them display one color among three primary colors in the line display period to the select switch of the corresponding signal line to turn the same on, turns on
20 the select switch of the signal line corresponding to another color to be displayed later in the same line display period during a period of supply of permission pulses of the supply of data with a precharge pulse having a time duration shorter than the supply time of the pixel
25 data of the other color, and precharges the signal line of

the other color in advance to a predetermined potential.

2. An image display device as set forth in claim 1, wherein the precharging control circuit changes the time duration or number of the precharge pulses to increase the time of the precharge the shorter the time duration of the permission pulse for the supply of data and the later the display of the color in the line display period.

3. An image display device as set forth in claim 1, wherein the precharging control circuit supplies the precharge pulse for the precharge in the blanking period located in the head portion of one horizontal scanning period to the signal line corresponding to the color to be displayed first during the line display period.

4. An image display panel having a group of pixels arranged in a matrix in a predetermined array and assigned to three primary colors, and having a signal line connected for each column of the group of pixels, wherein pixel data of three primary colors are successively supplied for each color to a corresponding signal line during a period excluding a blanking period of one horizontal scanning period constituted by a line display period for the color display of one pixel line, and wherein

the image display panel is provided with a precharging control circuit, and

the precharging control circuit is connected to a

select switch connected to each of the signal lines,
supplies permission pulses for the supply of data to signal
lines when making them display one color among three
primary colors in the line display period to the select
5 switch of the corresponding signal line to turn the same
on, turns on the select switch of the signal line
corresponding to another color to be displayed later in the
same line display period during a period of supply of
permission pulses of the supply of data with a precharge
10 pulse having a time duration shorter than the supply time
of the pixel data of the other color, and precharges the
signal line of the other color in advance to a
predetermined potential.

5. A panel drive device for successively supplying
15 pixel data of three primary colors for each color to a
corresponding signal line of an image display panel having
a group of pixels arranged in a matrix in a predetermined
array and assigned to three primary colors and having the
signal line connected for each column of the group of
20 pixels during a period excluding a blanking period of one
horizontal scanning period constituted by a line display
period at the time of driving each pixel line,

the panel drive device having a built-in
precharging control circuit, and wherein

25 the precharging control circuit is connected to a

select switch connected to each of the signal lines,
supplies permission pulses for the supply of data to signal
lines when displaying one color among three primary colors
in the line display period to the select switch of the

5 corresponding signal line to turn the same on, turns on the
select switch of the signal line corresponding to another
color to be displayed later in the same line display period
during a period of supply of permission pulses of the
supply of data with a precharge pulse having a time
10 duration shorter than the supply time of the pixel data of
the other color, and precharges the signal line of the
other color in advance to a predetermined potential.

6. A method of driving an image display panel for
successively supplying pixel data of three primary colors
15 for each color to a corresponding signal line of an image
display panel having a group of pixels arranged in a matrix
in a predetermined array and assigned to three primary
colors and having the signal line connected for each column
of the group of pixels during a period excluding a blanking
20 period of one horizontal scanning period constituted by a
line display period for color display for each pixel line,
comprising

supplying permission pulses for the supply of
data to signal lines when making them display one color
25 among three primary colors in the line display period to

the select switch of the corresponding signal line to turn the same on and

turning on the select switch of the signal line corresponding to another color to be displayed later in the same line display period during a period of supply of permission pulses of the supply of data with a precharge pulse having a time duration shorter than the supply time of the pixel data of the other color so as to precharge the signal line of the other color in advance to a predetermined potential.

7. A method of driving an image display panel as set forth in claim 6, further comprising changing the time duration or number of the precharge pulses to increase the time of the precharge the shorter the time duration of the permission pulse for the supply of data and the later the display of the color in the line display period.

8. A method of driving an image display panel as set forth in claim 6, further comprising supplying the precharge pulse for the precharge in the blanking period located in the head portion of one horizontal scanning period to the signal line corresponding to the color to be displayed first during the line display period.